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U. S. DEPARTMENT OF AGRICULTURE
NATIONAL INSTITUTE OF AGRICULTURE

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CURRENT SERIAL RECORD

CHICKEN MEAT PRODUCTION TESTS

Canada and the United States

Report for the period

1960-61



Growth Through Agricultural Progress

Agricultural Research Service
U. S. DEPARTMENT OF AGRICULTURE

CHICKEN MEAT PRODUCTION TESTS AND SUPERVISORS

Arkansas Meat Performance Broiler Test, Fayetteville
(Supervisor: L. T. Lankford, Box 391, Little Rock)

British Columbia Random Sample Broiler Test, Abbotsford
(Supervisor: W. H. Pope, B. C. Department of Agriculture, Victoria)

California Random Sample Chicken Meat Production Test
(Superintendent: Emery A. Johnson, Route 3, 2718 No. 99 Highway, Modesto)

Central Canadian Meat Test
(Supervisor: M. S. Mitchell, Poultry Division, Dept. of Agriculture, Ottawa, Ont.)

Maine Production and Broiler Test, Monmouth
(Supervisor: Francis G. Buzzell, Maine Department of Agriculture, Augusta)

New Hampshire Broiler Test
(Supervisor: W. C. Skoglund, University of New Hampshire, Durham)

FOREWORD

This report includes performance records of meat production test entries representing 70 stocks. Forty-nine of these stocks were composed of commercially available stocks, while the remaining 21 included experimental stocks. The designations of the stocks included in these matings and the tests in which they were represented are tabulated on pages 4 and 5 of this report.

Variations in the procedures followed by the different tests make it difficult to present the results so that the records reported by one test may be compared directly with those from another test. Some of the variations, which should be considered in the comparison of results are described in the following summary of test procedures.

SUMMARY OF OPERATING PROCEDURES AT EACH TEST

Arkansas Meat Performance Broiler Test

The Arkansas testing facilities are utilized by conducting four different broiler tests each year in addition to the reproduction test. The reproduction test was begun when a random sample of day-old male and female parent stock was placed in the brooder house. The birds were range reared and put into the laying quarters at five months of age. During the laying year, two groups of broiler chicks were hatched from eggs produced by the parental stock entered in the reproduction test. These broiler chicks were grown out and the data for the two hatches presented with the performance of the parent stock in the table entitled "Arkansas Random Sample Meat Performance and Reproduction Tests 1960-61."

The broiler growing facilities were utilized the balance of the year by the additional two meat performance tests. These tests differ from the previously mentioned broiler tests in that the eggs to produce these broilers were sampled from the entrant's flocks. The data obtained from these tests are presented in tables entitled "Arkansas Meat Performance Test No. 19" and "Arkansas Meat Performance Test No. 20."

British Columbia Random Sample Broiler Test

The British Columbia Random Sample Broiler Test was conducted for a period of nine weeks. The test was designed not only to determine differences in stock performance but to test stock performance when two different feed formulas are used. All entries except one started with 800 chicks (the Bray B92 X WR entry had 600 chicks). The sexes were reared separately, thus 200 birds of each sex were tested on each of the two rations. Ration C contained supplemental vitamins while Ration D did not. The cost of Ration C was approximately \$2.25 less per ton than Ration D. Nevertheless, the cost per pound of gain was about the same for both rations. The average weight at several ages as well as feed conversion has been calculated. In addition, feed conversion at three pounds of body weight and the number of days required to obtain three pounds of body weight are shown.

California Official Random Sample Chicken Meat Production Test

The California Official Random Sample Chicken Meat Production Test was begun when the sample taker randomly selected 720 hatching eggs from the entrant's egg room or hatchery. The eggs were divided into four lots of 180 eggs each and incubated in four different incubators. At hatching time, the chicks were sexed and 244 males and 244 females selected at random to constitute the entry to be tested. (Due to an error in selecting the hatching eggs, the Hubbard commercial entry consisted of only one-half of the usual number of chicks). The chicks were brooded and housed in concrete floor pens, 8' x 14' in size. Four replicate cockerel groups and four replicate pullet groups (61 birds per group or 488 birds per entry) were randomly located within the houses at the testing project. The chicks were vaccinated against Newcastle disease (water method) at five days of age, infectious bronchitis (water method) and Newcastle disease (intramuscular) at three weeks of age. At the end of the 8-week test period, all entries were weighed live. Seven hours later they were processed, then graded according to U. S. D. A. standards.

Central Canadian Meat Test

Entries in the Central Canadian Meat Test consist of a maximum of 120 pullet chicks and 120 cockerel chicks reared in separate pens. Mortality and feed conversion records are maintained from the commencement of the test. The birds are weighed individually at 8 weeks of age, while at 9 weeks of age, body weight is determined as an average for the entry. Feed conversion to 3 pounds of body weight was calculated. Also, the number of days required to obtain 3 pounds of body weight was calculated. The "Performance Efficiency" is determined by dividing body weight by feed conversion. A high performance efficiency reflects efficient production.

Maine Production and Broiler Test

The Maine Production and Broiler Test consists of two phases: The egg production, fertility and hatchability of the parental stock phase, and the meat producing ability of the progeny phase. Each entry of the parent stock consisted of 50 pullets and five cockerels. A sufficient number of eggs to produce 90 broiler chicks (45 of each sex) were sampled four times during the production year from each entry of parent stock. Chicks from three of these hatches were grown to 8 weeks of age and cockerels from the fourth hatch were grown to 12 weeks of age. The performance data reported in this publication are for the parental stock as well as the average performance of the broilers in the three 8-week trials.

New Hampshire Broiler Test

The New Hampshire Broiler Test data consists of the average performance of stocks entered in the two trials of each of two tests. The 9-week trials were begun on February 14, May 16, August 15, and November 14, 1961. Each stock was tested in duplicate pens consisting of 140 birds each.

The broilers were weighed at 8 weeks of age and weight and feed conversion computed for this period are reported. At 9 weeks of age they were again weighed, then processed. Data on live weight, feed conversion, mortality and market grade are reported. Six experimental stocks were tested.

Information in this report was compiled by the Poultry Research Branch, Animal Husbandry Research Division, Agricultural Research Service, from data supplied by the Test Supervisors and the Council of American Official Poultry Tests. The publication of this report should not be construed as implying approval or endorsement by the U. S. Department of Agriculture of any of the stocks tested.

STOCKS ENTERED IN 1960-61 MEAT PRODUCTION TESTS

STOCKS	TESTS ENTERED									
	Arkansas No. 5 & 5-A	Arkansas No. 5-B	Arkansas No. 19	Arkansas No. 20	British Columbia No. 7	California No. 13	Maine No. 15	New Hampshire No. I	New Hampshire No. II	Central Canadian No. 10
Arbee X Pilch WPR	X		X	X	X		X		X	
Athens-Canadian Random Breds										
Bray WPR										
Bray 92 X Bray WPR										
Bray 99 X Bray WPR										
Bray 592 X Bray WPR										
Brown X Arbor Acres #50		X	X	X	X	X	X	X	X	
Brown X Cobb WPR		X	X	X	X	X	X	X	X	
Brown X Lambright		X	X	X	X	X	X	X	X	
Brown X Nichols 108		X	X	X	X	X	X	X	X	
Brown X Pilch		X	X	X	X	X	X	X	X	
Brown X J. N. Thompson		X	X	X	X	X	X	X	X	
Clements #5 X Arbor Acres WPR										
Clements #5 X Cobb WPR										
Cobb WPR										
Cobb Experimental #1										
Cobb Experimental #2										
Coll WPR										
Coll Cornish X WPR										
Eagle White X Cobb WPR										
Hubbard New White Mt. (Exp.)										
Hubbard New White Mt. X New Hub. #39										
Hubbard White Mt. X Hubbard #39		X		X						
Hubbard White Mt. X Cobb										
Indian River #4 X Pilch WPR										
Lambright V-X (Exp.)										
Moore's "Chesty" X Cobb WPR										
Nichols 909B X Arbor Acres										
Nichols 909B X Hubbard #39										
Nichols 909B X Nichols 108										
Ottawa Meat Control										
Peels Cornish X Peels 132A										
Peels 194 X Peels 132A										
Peels 192C										
Penobscot M #1 X #31										
Penobscot M #3 X #31										

STOCKS ENTERED IN 1960-61 MEAT PRODUCTION TESTS (Continued)

STOCKS	TESTS ENTERED							Central Canadian No. 10	
	Arkansas No. 5 & 5-A	Arkansas No. 5-B	Arkansas No. 19	Arkansas No. 20	British Columbia No. 7	California No. 13	Maine No. 15	New Hampshire No. I	New Hampshire No. II
Peterson Cross (Exp.)									
Peterson X Arbor Acres #50									
Peterson X Arbor Acres WPR									
Peterson X Arbor Acres (Exp.)	X	X	X						
Peterson X Cobb WPR	X	X	X						
Peterson X Hubbard #39									
Peterson X Nichols 108									
Peterson X Pilch WPR									
Peterson X Riddle Spring 459									
Peterson X Thompson NT 777	X	X							
Peterson X Thompson WPR (Exp.)	X	X							
Pilch Experimental #1									
Pilch Experimental #2									
Pilch WPR									
Seiling 200 Cornish X Seiling WPR									
Seiling 400 Cornish X Arbor Acres #50									
Thompson, A. W. (Exp.)									
Thompson, A. W., Inbred (Exp.)									
University of Arkansas, Hilo (Exp.)	X	X							
University of Arkansas Cornish									
Vantrese X Arbor Acres #50									
Vantrese X Arbor Acres WPR									
Vantrese X Cobb WPR									
Vantrese X Hubbard #39	X	X							
Vantrese X Nichols 108	X	X	X	X					
Vantrese X Pilch WPR	X	X							
Vantrese White Cross (Exp.)									
Experimental #1									
Experimental #2									
Experimental #3									
Experimental #4									
Experimental #5									
Experimental #6									
Experimental #7									

ARKANSAS RANDOM SAMPLE MEAT PERFORMANCE AND REPRODUCTION TESTS - 1961

ENTRANT	BREEDS	PARENTAL FEMALES				PROGENY TEST 5-A				(January 11 to March 1)			
		Hen* Housed % Prod.	Lbs.* Feed per Dozen Eggs	Hens* Housed % Via- bility	% Via- bility to 8 Wks.	Feed Conv. Lbs. Feed per Lb. Live Wt.	Average Live Wt. at 7 Wks.	Feed Cost per Lb. Live Wt. (cents)	Average Eviscerated Yield % Live Wt.				
COMMERCIAL ENTRIES:													
Brown's LedBrest, Inc., Springdale, Ark.	LedBrest X Cobb's WPR	47.4	7.9	87.0	96.8	1.94	3.15	2.57	9.72	67.8			
Cobb's, Concord, Mass. & Peterson, Decatur, Ark.	Peterson X Cobb's WPR	46.2	8.0	84.0	96.1	1.94	3.18	2.59	9.69	67.8			
Hubbard Farms, Inc., Walpole, N. H.	White Mtn. X Hub. No. 39	47.8	7.8	79.0	94.9	1.91	3.10	2.45	9.56	67.4			
Hubbard Farms, Inc., Walpole, N. H.	Vantress X Hub. No. 39	50.7	7.4	80.0	99.2	1.94	3.23	2.66	9.71	67.3			
Lambright Hatchery, LaGrange, Ind.	LedBrest X White Meateor	51.1	7.2	93.0	98.8	1.97	2.66	2.18	9.81	68.6			
Brown's LedBrest, Inc., Springdale, Ark.	LedBrest X Nichols No. 108	50.6	7.9	95.0	98.4	1.97	2.92	2.48	9.84	67.5			
Nichols, Glastonbury, Conn., & Peterson, Decatur, Ark.	Peterson X Nichols No. 108	51.1	7.8	93.0	99.6	1.95	2.96	2.48	9.78	68.4			
Nichols Poultry Farm, Glastonbury, Conn.	Vantress X Nichols No. 108	51.3	7.6	87.0	99.2	1.99	3.12	2.54	9.97	67.6			
Pilch Poultry Farms, Hazardville, Conn.	Vantress X Pilch WPR	47.0	8.1	85.0	98.8	1.94	3.04	2.52	9.71	67.5			
A. W. Thompson, Inc., Hoschton, Ga.	Peterson X Thompson WPR	49.2	7.5	90.0	98.4	1.94	2.88	2.38	9.69	66.6			
J. N. Thompson Hatchy. & Br. Farm, Pottsville, Ark.	LedBrest X Thompson WPR	49.0	7.7	87.0	96.8	1.98	3.10	2.49	9.89	67.2			
AVERAGE FOR COMMERCIAL ENTRIES:		49.2	7.7	87.3	97.9	1.95	3.03	2.48	9.76	67.4			
EXPERIMENTAL ENTRIES:													
Arbor Acres Farm, Glastonbury, Conn.	Peterson X Arbor Acre Exp.	42.2	9.1	91.0	97.6	1.93	3.17	2.55	9.66	67.8			
A. W. Thompson, Inc., Hoschton, Ga.	Peterson X Thompson Exp.	54.8	6.9	89.0	98.4	1.96	2.90	2.32	9.78	68.3			
University of Arkansas Fayetteville, Ark.	University of Ark. HiLo	38.9	9.1	93.6	97.2	2.15	2.55	2.13	10.74	66.3			
University of Arkansas Fayetteville, Ark.	Athens-Canadian Random-breds	54.1	6.0	83.0	98.0	2.01	2.46	2.08	10.06	67.7			
AVERAGE FOR EXPERIMENTAL ENTRIES:		47.5	7.8	89.1	97.8	2.01	2.77	2.27	10.06	67.5			

ARKANSAS RANDOM SAMPLE MEAT PERFORMANCE AND REPRODUCTION TESTS - 1961

ENTRANT	BREEDS	% Vicia- bility to 7 Wks.	Feed Conv. Lbs. Feed per Lb. Live Wt.	Average Live Weight at 7 Wks.		Feed Cost per Lb. Live Wt. (cents)	Average Eviscerated Yield % Live Wt.
				Male	Female		
PROGENY TEST 5-B (July 26 to September 13)							
Brown's LedBrest, Inc., Springdale, Ark.	LedBrest X Cobb's WPR	95.3	1.97	2.97	2.46	9.86	65.6
Cobb's, Concord, Mass. & Peterson, Decatur, Ark.	Peterson X Cobb's WPR	96.6	1.98	3.04	2.52	9.89	65.9
Hubbard Farms, Inc., Walpole, N. H.	White Mtn. X Hub. No. 39	92.0	1.93	2.91	2.34	9.64	65.6
Hubbard Farms, Inc., Walpole, N. H.	Vantress X Hub. No. 39	97.3	1.98	3.13	2.53	9.89	67.2
Lambright Hatchery, LaGrange, Ind.	LedBrest X White Meateor	94.7	1.98	2.59	2.17	9.88	65.6
Brown's LedBrest, Inc., Springdale, Ark.	LedBrest X Nichols No. 108	98.7	1.98	2.67	2.20	9.92	66.7
Nichols, Glastonbury, Conn. & Peterson, Decatur, Ark.	Peterson X Nichols No. 108	98.0	1.99	2.79	2.27	9.96	67.2
Nichols Poultry Farm, Glastonbury, Conn.	Vantress X Nichols No. 108	98.7	1.99	2.82	2.25	9.93	66.1
Filch Poultry Farms, Hazardville, Conn.	Vantress X Pilch WPR	98.0	1.95	3.02	2.40	9.73	65.7
A. W. Thompson, Inc., Hoschton, Ga.	Peterson X Thompson WPR	93.3	2.00	2.78	2.33	10.00	67.3
J. N. Thompson Hatchy. & Br. Farm, Pottsville, Ark.	LedBrest X Thompson WPR	98.6	1.96	3.00	2.42	9.79	65.4
AVERAGE FOR COMMERCIAL ENTRIES:							
EXPERIMENTAL ENTRIES:							
Arbor Acres Farm, Glastonbury, Conn.	Peterson X Arbor Acre Exp.	94.7	1.94	3.01	2.44	9.68	67.0
A. W. Thompson, Inc., Hoschton, Ga.	Peterson X Thompson Exp.	98.0	1.95	2.70	2.21	9.77	66.9
University of Arkansas Fayetteville, Ark.	University of Ark. HILo	98.0	2.12	2.62	2.16	10.61	65.4
AVERAGE FOR EXPERIMENTAL ENTRIES:							
96.9	2.00	2.78	2.27	10.02	10.02	66.4	

ARKANSAS MEAT PERFORMANCE TEST - No. 19
September 20, 1961 - November 8, 1961

ENTRANT	BREEDS	% Viability to 7 Wks.	Feed Cost per Lb. of Chicken (cents)	Feed Conv. Lbs. Feed per Lb. Live Wt.	Average Weight at 7 Weeks		Eviscerated Yield % Live Wt.	Grade A Fleshing % Carcass Finish
					Male	Female		
COMMERCIAL ENTRIES:								
Brown's LedBrest, Inc., Springdale, Ark.	LedBrest X Cobb's WPR	97.2	9.69	1.94	3.02	2.49	2.76	65.4 100
Cobb's Pedigreed Chicks, Concord, Mass.	Cobb's Strain Cross	97.6	9.92	1.98	3.12	2.53	2.82	65.5 100
Moore Farms, Inc., Lancaster, Penna.	Moore's Chesty X Cobb's WPR	96.4	9.40	1.88	3.05	2.45	2.75	67.9 100
Nichols Poultry Farms, Glastonbury, Conn.	Vantress X Nichols No. 108	96.0	9.23	1.84	3.24	2.65	2.92	66.2 100
Peterson Breeding Farm, Decatur, Ark.	Peterson X Arbor Acre No. 50	97.6	9.49	1.90	2.91	2.35	2.62	69.4 100
Peterson Breeding Farm, Decatur, Ark.	Peterson X Cobb's WPR	96.8	9.63	1.93	3.13	2.47	2.83	67.9 100
J. N. Thompson Hatchy. & Br. Farm, Pottsville, Ark.	LedBrest X Thompson WPR	99.6	9.65	1.93	3.00	2.45	2.74	69.5 100
AVERAGE FOR COMMERCIAL ENTRIES:		97.3	9.57	1.91	3.07	2.48	2.76	67.4 100
EXPERIMENTAL ENTRIES:								
Lambright Hatchery, Inc., LaGrange, Ind.	Lambright V-X Cross	98.4	9.20	1.84	2.86	2.29	2.56	67.0 100
A. W. Thompson, Inc., Hoschton, Ga.	Thompson Experimental Cross	97.6	10.07	2.01	2.71	2.22	2.47	66.9 100
A. W. Thompson, Inc., Hoschton, Ga.	Thompson Inbred Cross	98.8	9.70	1.94	2.74	2.20	2.47	66.4 100
University of Arkansas Fayetteville, Ark.	Athens-Canadian Random-breds	98.8	10.26	2.05	2.04	1.68	1.84	70.7 100
AVERAGE FOR EXPERIMENTAL ENTRIES:		98.4	9.81	1.96	2.59	2.10	2.34	67.8 100

ARKANSAS MEAT PERFORMANCE TEST - No. 20
November 15, 1961 - January 3, 1962

ENTRANT	BREEDS	% Viability to 7 Wks.	Feed Cost per Lb. of Chicken (cents)	Feed Conv. Lbs. Feed per Lb. Live Wt.	Average Weight at 7 Weeks			Average Eviscerated Yield % Live Wt.	Grade A Carcass Finish
					Male	Female	Average		
COMMERCIAL ENTRIES:									
Brown's LedBrest, Inc., Springdale, Ark.	LedBrest X Cobb's WPR	96.8	9.56	1.91	3.22	2.60	2.91	67.2	100
Brown's LedBrest, Inc., Springdale, Ark.	LedBrest X Pilch WPR	98.8	9.65	1.93	2.96	2.40	2.68	69.1	100
Cobb's Pedigreed Chicks, Concord, Mass.	Cobb's Strain Cross	96.0	9.61	1.92	3.15	2.51	2.84	67.3	100
Moore Farms, Inc., Lancaster, Penna.	Moore's Chesty X Cobb's WPR	96.0	9.86	1.97	3.12	2.53	2.82	68.4	100
Nichols Poultry Farms, Glastonbury, Conn.	Vantress X Nichols No. 108	97.2	9.75	1.95	3.37	2.80	3.09	68.1	100
Peterson Breeding Farm, Decatur, Ark.	Peterson X Arbor Acre No. 50	97.2	9.69	1.94	3.04	2.45	2.76	67.7	100
AVERAGE FOR COMMERCIAL ENTRIES:									
EXPERIMENTAL ENTRIES:									
Peterson Breeding Farm, Decatur, Ark.	Peterson Experimental Cross	96.0	9.63	1.93	3.40	2.69	3.04	70.8	100
University of Arkansas Fayetteville, Ark.	White Cornish X	90.2	9.60	1.92	3.00	2.42	2.71	69.4	100
University of Arkansas Fayetteville, Ark.	Athens-Canadian Random-bred	97.6	10.13	2.03	2.14	1.74	1.94	69.1	100
AVERAGE FOR EXPERIMENTAL ENTRIES:									
		94.6	9.79	1.96	2.85	2.28	2.57	69.8	100

SEVENTH BRITISH COLUMBIA RANDOM SAMPLE BROILER TEST
September 14, 1961 - November 17, 1961

ENTRANT	BREEDS	Percent Livability		Average Weight at 63 days		Feed Conv. at 63 Days	Percent of Birds Grade A	Percent Eviscerated Yield	Time to reach 3 Lbs. Wt. (days)	Estimated Feed Conv. at 3 Lbs.	Return per Bird less Feed Cost (cents)
		Male	Female	Male	Female						
FEED FORMULA - C											
Peel's Poultry Farm, Port Perry, Ontario	192 C	93.8	4.32	3.44	2.45	75.3	69.7	52.3	2.29	22.5	
Centennial Hatchery, Hammond, B. C.	Pilch WPR	95.8	4.38	3.40	2.48	76.0	68.9	52.3	2.30	23.1	
Pacific Hatchery, North Surrey, B. C.	Vantress X Hubbard No. 39	94.0	4.65	3.55	2.45	75.6	69.0	50.0	2.24	23.5	
Fred W. Bray, Ltd., Hamilton, Ontario	B 92 X White Rock	91.5	4.61	3.76	2.44	73.8	68.7	49.5	2.22	24.2	
Fred W. Bray, Ltd., Hamilton, Ontario	592 X White Rock - 2	98.3	4.44	3.40	2.44	73.5	68.8	52.0	2.29	23.9	
AVERAGE:		94.7	4.48	3.51	2.45	74.9	69.0	51.2	2.27	23.4	
FEED FORMULA - D											
Peel's Poultry Farm, Port Perry, Ontario	192 C	94.5	4.29	3.36	2.47	78.8	70.1	52.5	2.34	23.9	
Centennial Hatchery, Hammond, B. C.	Pilch WPR	95.8	4.32	3.37	2.54	76.0	68.2	52.5	2.34	22.8	
Pacific Hatchery, North Surrey, B. C.	Vantress X Hubbard No. 39	97.0	4.61	3.56	2.45	79.7	68.2	50.3	2.28	26.7	
Fred W. Bray, Ltd., Hamilton, Ontario	B 92 X White Rock	93.5	4.61	3.66	2.48	55.1	68.9	50.0	2.27	25.0	
Fred W. Bray, Ltd., Hamilton, Ontario	592 X White Rock - 2	98.5	4.38	3.37	2.48	67.5	69.9	52.5	2.34	24.8	
AVERAGE:		95.9	4.44	3.46	2.48	71.4	69.1	51.6	2.31	24.6	

THIRTEENTH CALIFORNIA OFFICIAL RANDOM SAMPLE CHICKEN MEAT PRODUCTION TEST

ENTRANT	BREEDS	% Mortality 8 days to 8 Weeks		Average Live Weight at End of Test		Percent Eviscerated Yield		Feed Conversion Ratio		L. O. F. C. per 100 Birds (survivors)
		Males	Females	Average	Males	Females	Males	Females		
Brown's LedBrest, Inc., Springdale, Ark.	LedBrest X Pilch	2.1	3.59	2.87	3.23	75.4	74.9	2.30	2.44	\$18.98
Brown's LedBrest, Inc., Springdale, Ark.	LedBrest X Cobb's	3.0	3.66	3.10	3.38	75.1	75.1	2.35	2.39	19.64
Bundesen Bros. Hatcheries, Petaluma, Calif.	Eagle X Cobb's WPR	2.4	3.71	3.01	3.36	75.7	75.3	2.32	2.48	19.36
Feather River Hatchery, Marysville, Calif.	Vantress X Pilch WPR	2.4	3.61	2.92	3.27	75.6	76.0	2.30	2.48	19.08
Feather River Hatchery Marysville, Calif.	Vantress X Cobb's WPR	2.7	3.70	3.00	3.35	75.6	75.9	2.31	2.44	19.90
Feather River Hatchery, Marysville, Calif.	Vantress X Arbor Acre No. 50	1.9	3.66	2.93	3.30	75.2	75.5	2.33	2.45	19.53
Hubbard Farms, Walpole, N. H.	White Mtn. X Hub. No. 39	1.6	3.66	3.00	3.33	75.6	74.6	2.25	2.40	20.19
Nichols Poultry Farm, Inc., Brunswick, Maine	Vantress X Nichols No. 108	1.8	3.55	2.92	3.23	75.9	74.7	2.35	2.52	17.83
Hubbard Farms, Walpole, N. H.	New White Mtn. X New Hub. No. 39	5.0	3.93	3.24	3.59	76.0	75.2	2.27	2.38	21.62
Nichols Poultry Farm, Inc., Brunswick, Maine	Nichols Cross 909B X Nichols 108	4.2	4.13	3.48	3.81	74.8	74.6	2.29	2.38	21.02
AVERAGE:		2.7	3.72	3.05	3.38	75.5	75.2	2.31	2.44	19.72

TENTH CENTRAL CANADIAN MEAT TEST - 1961

ENTRANT	BREEDS	AVERAGE PERFORMANCE OF MALE AND FEMALE PENS						Calculated No. of days to 3 Lbs.	% Grade A	Performance Efficiency at 9 Wks.
		% Hatch of all Eggs	% Mortality to 9 Wks.	Feed Conv. to 9 Wks.	Calculated Feed Conv. to 3 Lbs.	Average 9 Week Body Weight Males	Average 9 Week Body Weight Females			
COMMERCIAL ENTRIES:										
Seiling, A. Elmira, Ont.	Seiling 200 Cornish X White Rock	71.8	1.8	2.30	2.10	4.38	3.32	53.9	92.2	168.4
Cobb's Pedigreed Chicks, Concord, Mass.	White Rock X	52.4	2.2	2.47	2.36	4.36	3.39	53.9	93.8	157.7
Bray, F. W., Hamilton, Ont.	White Rock X	57.5	2.5	2.37	2.23	4.35	3.40	53.5	95.0	164.0
Bray, F. W., Hamilton, Ont.	White Rock 99X X White Rock	66.2	2.7	2.39	2.21	4.34	3.42	52.8	74.3	168.4
Seiling, A., Elmira, Ont.	Seiling 400 Cornish X Arbor Acres #50	75.1	1.3	2.37	2.23	4.23	3.23	54.8	76.7	158.8
Peel's Poultry Farm, Port Perry, Ont.	Peel 194 X 132A	75.5	1.7	2.38	2.20	4.22	3.24	54.4	89.8	158.0
Pilch Poultry Br. Farm, Hazardville, Conn.	Indian River #4 X Pilch	66.9	2.1	2.37	2.28	4.20	3.07	54.9	78.0	155.1
Peel's Poultry Farm, Port Perry, Ont.	Peel Cornish X 132A	75.6	2.6	2.34	2.21	3.92	3.17	56.1	87.0	152.5
AVERAGE FOR COMMERCIAL ENTRIES:		67.6	2.1	2.37	2.23	4.25	3.28	54.3	85.9	160.4
EXPERIMENTAL ENTRIES:										
Ottawa Meat Control		80.1	0.9	2.39	2.53	2.89	2.35	71.6	67.3	110.0
Experimental #1		80.6	2.5	2.36	2.25	4.00	3.12	56.5	82.8	151.1
Experimental #2		62.0	3.1	2.42	2.27	3.94	3.25	55.6	71.9	149.3
Experimental #3		50.4	2.3	2.26	2.11	3.93	3.07	56.9	76.7	155.2
Experimental #4		75.9	6.2	2.38	2.25	3.93	3.04	56.9	87.7	147.8
Experimental #5		87.4	0.8	2.42	2.33	3.86	3.02	58.0	79.5	143.4
Experimental #6		71.7	1.3	2.33	2.24	3.85	2.98	58.0	70.0	147.1
Experimental #7		82.8	1.3	2.38	2.34	3.60	2.90	60.2	80.6	136.9
AVERAGE FOR EXPERIMENTAL ENTRIES:		73.9	2.3	2.37	2.29	3.75	2.97	59.2	77.1	142.6
TEST AVERAGE:		70.1	2.3	2.37	2.24	4.07	3.17	55.8	82.4	154.2

PERFORMANCE OF PARENT STOCK

ENTRANT	BREEDS	Production				Livability Hens	Fertility	%
		Eggs	10-1-60 to 7-1-61 %	Hatching Eggs	%			
Clements Chicks, Inc.	Clements #5 X Arbor Acres WR	6791	49.8	86.2	90	89.2	84.6	
Pilch's Poultry Farms, Inc.,	Vantress X Pilch	7303	53.5	90.8	92	90.5	86.2	
Cobb's Pedigreed Chicks, Inc.	White Rock Strain Cross	5207	38.1	83.6	74	88.5	76.6	
Arbor Acres Farm, Inc.	Vantress X Arbor Acres #50	6597	48.3	89.2	80	77.7	73.5	
Arbor Acres Farm, Inc.	Peterson X Arbor Acres WR	6709	49.2	87.0	94	83.1	77.6	
White's Farm & Hatchery,	Vantress X Arbor Acres WR	7316	53.6	87.9	92	73.5	69.9	
Clements Chicks, Inc.	Clements #5 X Cobb's WR	5592	41.0	84.4	88	79.2	74.0	
Penobscot Poultry Co.	M #3 X #31	6509	47.7	87.2	90	78.1	71.0	
Penobscot Poultry Co.	M #1 X #31	5924	43.4	80.4	90	75.9	68.3	
Hubbard Farms, Inc.	Peterson X Hubbard #39	7758	56.8	84.4	92	89.4	81.0	
Hubbard Farms, Inc.	Vantress X Hubbard #39	6135	44.9	83.6	92	85.3	81.8	
C M T Company	Nichols 909B X Arbor Acres WR	6817	49.9	87.5	94	85.3	81.4	
C M T Company	LedBrest X Arbor Acres #50	6668	48.8	84.5	88	82.0	75.9	
Pilch's Poultry Farm, Inc.	Peterson X Pilch	7081	51.9	85.2	94	89.0	83.3	
Hillcrest Hatchery	Vantress X Cobb's WR	5866	43.0	81.8	90	79.9	72.7	
Coleman Research Farm	Vantress X Nichols #108	7210	52.8	89.8	84	83.3	76.3	
Coleman Research Farm	Nichols 909B X Nichols 108	6865	50.3	89.0	94	85.5	82.4	
Coleman Research Farm	Peterson X Nichols 108	6522	47.8	86.5	90	81.8	78.1	
Chester D. Bacheller	White Mtn. X Cobb's WR	6448	47.2	85.1	88	78.6	73.3	
Edgecomb's Hatchery	Nichols 909B X Hubbard #39	7350	53.8	84.7	84	89.2	83.9	
	AVERAGE	6633	48.6	85.9	89.1	83.3	77.6	

FIFTEENTH MAINE PRODUCTION AND BROILER TEST
1960-61

PERFORMANCE OF PROGENY - SUMMARY OF THREE HATCHES

ENTRANT	No. Chicks at start				Live Weight - Lbs. at 8 Weeks				Feed Conversion at 8 Weeks				Eviscerated Yield		L. O. F. C. per Chick started	
	Males		Females		% Livability		Males Females Average		Males Females Average		Males Females Average		Males Females Average			
	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females		
Clements Chicks, Inc.	135	135	98.5	98.5	3.86	3.11	3.49	2.10	2.21	2.15	72.7	72.0	23.3¢			
Pilch's Poultry Farms, Inc.	135	135	95.9	4.27	3.51	3.89	2.14	2.25	2.19	70.3	72.4		26.8			
Cobb's Pedigreed Chicks, Inc.	135	135	97.7	4.27	3.38	3.83	2.13	2.20	2.16	72.1	71.2		25.0			
Arbor Acres Farm, Inc.	135	135	95.9	4.04	3.40	3.72	2.13	2.14	2.14	70.9	72.8		25.0			
Arbor Acres Farm, Inc.	135	135	95.1	4.20	3.30	3.76	2.09	2.20	2.14	73.0	73.0		24.8			
White's Farm & Hatchery	131	135	98.8	4.14	3.28	3.71	2.04	2.14	2.08	72.8	72.5		27.5			
Clements Chicks, Inc.	135	135	97.3	4.07	3.25	3.66	2.13	2.21	2.17	71.6	74.0		24.2			
Penobscot Poultry Co.	135	135	98.1	4.07	3.29	3.68	2.08	2.17	2.12	73.6	73.5		25.7			
Penobscot Poultry Co.	127	124	97.5	3.75	3.01	3.38	2.01	2.15	2.07	73.1	69.5		25.6			
Hubbard Farms, Inc.	135	135	98.1	4.03	3.26	3.65	2.02	2.13	2.07	72.2	72.7		27.6			
Hubbard Farms, Inc.	135	135	95.9	4.21	3.42	3.82	2.04	2.09	2.06	71.8	72.4		26.9			
C M T Company	135	135	96.9	4.20	3.27	3.74	2.06	2.20	2.12	73.6	72.1		25.2			
C M T Company	135	135	95.9	3.79	3.36	3.58	2.11	2.10	2.10	70.9	76.9		23.8			
Pilch's Poultry Farm, Inc.	135	135	96.2	3.98	3.21	3.60	2.06	2.13	2.09	73.8	70.8		25.0			
Hillcrest Hatchery	135	135	95.5	4.37	3.46	3.92	2.08	2.19	2.13	71.7	71.4		25.7			
Coleman Research Farm	135	135	97.0	4.20	3.37	3.79	2.10	2.22	2.15	72.7	72.1		25.0			
Coleman Research Farm	135	135	95.9	4.30	3.52	3.92	2.10	2.20	2.15	71.5	72.5		25.6			
Coleman Research Farm	135	135	98.1	4.23	3.38	3.81	2.08	2.19	2.13	72.9	73.2		25.4			
Chester D. Bacheller	135	135	95.5	4.50	3.53	4.02	2.07	2.21	2.13	73.6	73.2		27.1			
Edgecomb's Hatchery	135	135	97.3	4.28	3.38	3.83	2.11	2.22	2.16	71.9	73.1		24.8			
AVERAGE	135	135	96.8	4.14	3.33	3.74	2.08	2.18	2.12	72.3	72.6		25.5			

NEW HAMPSHIRE BROILER TEST - COMBINED SUMMARY FOR TEST I
1961

ENTRANT	BREEDS	AVERAGE OF TRIAL I AND TRIAL II - July 18, 1961*						Mortality	Grade A		
		9 Week Weights			8 Week Average Weight		Feed Conversion				
		Male	Female	Average	8 Wks.	9 Wks.	3.0 Lbs. Calculated				
COMMERCIAL ENTRIES:											
Hubbard Farms, Inc.	White Mtn. X Hub. #39	4.27	3.34	3.80	3.30	2.18	2.31	2.06	2.0		
Cobb's Pedigreed Chicks	White Rock Strain Cross	4.35	3.46	3.91	3.35	2.23	2.35	2.11	3.1		
Browns LedBrest, Inc.	LedBrest X Cobb's	4.40	3.48	3.94	3.38	2.20	2.31	2.10	2.0		
Middle Ridge Hatchery	Arbee X Pilch WR	4.07	3.20	3.64	3.11	2.17	2.29	2.14	2.9		
Colls Poultry Farm	White Rock	3.63	2.85	3.24	2.75	2.25	2.36	2.30	2.9		
Nichols, Inc.	Vantress X Nichols	4.18	3.36	3.77	3.30	2.25	2.40	2.14	1.8		
AVERAGE FOR COMMERCIAL ENTRIES:		4.15	3.28	3.72	3.20	2.22	2.34	2.15	2.4		
EXPERIMENTAL ENTRIES: **:											
Pilch Poultry Farm	Experimental #2	4.11	3.25	3.68	3.18	2.22	2.35	2.19	5.9		
Cobb's Pedigreed Chicks	Experimental #1	4.31	3.40	3.86	3.30	2.25	2.35	2.17	3.4		
Hubbard Farms, Inc.	New White Mtn.	4.78	3.79	4.29	3.69	2.16	2.27	2.00	4.7		
Colls Poultry Farm	Cornish X White Rock	3.86	3.03	3.45	2.94	2.24	2.36	2.26	3.0		
Pilch Poultry Farm	Experimental #1	4.15	3.27	3.71	3.19	2.25	2.37	2.18	5.2		
Riddle Spring Poultry Fr.	White Vantress Cross	3.51	2.76	3.14	2.71	2.29	2.42	2.38	2.3		
AVERAGE FOR EXPERIMENTAL ENTRIES:		4.11	3.24	3.68	3.16	2.23	2.36	2.20	4.0		
TEST AVERAGE :		4.13	3.26	3.70	3.18	2.23	2.35	2.17	3.3		

* This is the average of duplicate pens of 10 chicks each in Trial I which ended April 18, 1961 and Trial II which ended July 18, 1961. Thus a total of 4 pens and 560 chicks are involved. The same stock was entered in each trial.

** Experimental entries are not for sale commercially at the present time.

NEW HAMPSHIRE BROILER TEST - COMBINED SUMMARY FOR TEST II
1961

ENTRANT	BREEDS	AVERAGE OF TRIAL I AND TRIAL II - January '61, 1962*						Mortality	% Grade A		
		9 Week Weights			Feed Conversion						
		Male	Female	Average	8 Wks.	9 Wks.	Calculated				
COMMERCIAL ENTRIES:											
Hubbard Farms, Inc.	White Mtn. X Hub. #39	4.43	3.38	3.91	3.33	2.23	2.35	2.15	2.2		
Cobb's Pedigreed Chicks	White Rock Strain	4.37	3.42	3.90	3.33	2.32	2.45	2.21	2.0		
	Cross								84.8		
Browns LedBrest, Inc.	LedBrest X Cobb's	4.31	3.39	3.87	3.30	2.29	2.41	2.20	1.4		
Colls Poultry Farm Inc.	White Rock	3.63	2.84	3.24	2.72	2.33	2.45	2.40	87.0		
Riddle Spring Poultry	Peterson X 459	4.09	3.20	3.65	3.09	2.26	2.38	2.23	78.2		
Farm	Peterson X Cobb's	4.05	3.24	3.65	3.09	2.26	2.40	2.24	2.5		
Riddle Spring Poultry	Farm								87.2		
									90.0		
	AVERAGE FOR COMMERCIAL ENTRIES:	4.15	3.25	3.70	3.14	2.28	2.41	2.24	2.1		
EXPERIMENTAL ENTRIES: **											
Pilch Poultry Br. Farm	Experimental #1	4.39	3.38	3.89	3.31	2.30	2.43	2.24	3.6		
Pilch Poultry Br. Farm	Experimental #2	4.28	3.38	3.83	3.30	2.28	2.41	2.20	88.6		
Cobb's Pedigreed Chicks	Experimental #1	4.26	3.34	3.80	3.26	2.31	2.46	2.23	2.1		
Cobb's Pedigreed Chicks	Experimental #2	4.33	3.38	3.86	3.25	2.28	2.39	2.22	82.6		
Hubbard Farms, Inc.	New White Mtn.	4.78	3.77	4.28	3.66	2.23	2.36	2.05	89.9		
Colls Poultry Farm, Inc.	Cornish X White	3.85	2.98	3.42	2.88	2.31	2.43	2.35	91.9		
Peel's Poultry Farm	Rock								83.5		
	Cornish X 132 A	3.95	3.08	3.52	3.00	2.28	2.42	2.22	4.9		
									86.5		
	AVERAGE FOR EXPERIMENTAL ENTRIES:	4.26	3.33	3.80	3.24	2.28	2.41	2.22	1.4		
	TEST AVERAGE:	4.21	3.29	3.76	3.19	2.28	2.41	2.23	85.0		
									86.7		

* This is the average of duplicate pens of 140 chicks each in Trial I which ended October 17, 1961 and Trial II which ended January 16, 1962. Thus a total of 4 pens and 560 chicks are involved. The same stock was entered in each trial.

** Experimental entries are not for sale commercially at the present time.